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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/710,518 07/16/2004		Larry V. Presley	219807152004	4517	
26496	7590	01/17/2006	EXAMINER		INER
		EBERMAN, LLO	MAYEKAR, KISHOR		
2141 WISCONSIN AVE, N.W. SUITE C-2				ART UNIT	PAPER NUMBER
WASHINGT	TON, DC	20007	1753		

DATE MAILED: 01/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/710,518	PRESLEY ET AL.				
		Examiner	Art Unit				
		Kishor Mayekar	1753				
<u> </u>	The MAILING DATE of this communication app						
	Period for Reply						
WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timed apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	ely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status							
2a)⊠	Responsive to communication(s) filed on <u>21 Octoor</u> This action is FINAL . 2b) This Since this application is in condition for allowant closed in accordance with the practice under <i>E</i> .	action is non-final. acte except for formal matters, pro					
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 1-3 and 6 is/are pending in the applicated 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-3 and 6 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the description of the	rn from consideration. election requirement. epted or b) □ objected to by the Election be held in abeyance. See on is required if the drawing(s) is objected to be one is required to be one	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority u	nder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2)	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	e				

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DETAILED ACTION

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Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out

his invention.

2. Claims 2 and 3 are rejected under 35 U.S.C. 112, first paragraph, as failing

to comply with the written description requirement. The claim(s) contains subject

matter which was not described in the specification in such a way as to reasonably

convey to one skilled in the relevant art that the inventor(s), at the time the

application was filed, had possession of the claimed invention. Claims 2 and 3 now

recite that the photoreactor reactor plate is made of an impact-modified acrylic

(polymethylmethacrylate) polymer. However the limitation "an impact-modified

acrylic polymer" has no support in the specification as originally filed. As such, the

limitation constitutes a new matter.

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- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 1-3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable 4. over Orr, Jr. et al. (4,095,115) in view of Schaefer (US 3,801,791) and either Zimek et al. (5,397,444) or Crosbie (6,165,423), all the references except Schaefer cited in the last Office action. Orr's invention is directed an ozone generating device. Orr discloses in Figs. 1 and 2 that the device contains a hollow body 14 with first and second ends, a plate 20 sits atop the hollow body 14, and a generally rectangular slotted opening adapted to receive the plate. Orr also discloses in col. 2, lines 38-44 the use of the device for sewage treatment or other applications for oxidation, and in paragraph crossing cols. 3 and 4 the choice of material of the plate 20 and hollow body 14 is conventional and well within the ordinary skill of the art. The differences between Orr and the above claims are that the plate traps the UV light, the securing of the plate to the hollow body with a series of bracing members, and a series of tubing communicating with the second end of the hollow body.

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As to the first difference, Schaefer shows in an ozone generator the use of an acrylic material for the housing as the acrylic material is known to be ozone resistant (col. 2, lines 51-58). And when the acrylic material is the choice of material for the plate in Orr and since the acrylic material is transparent, the acrylic material will allow some UV light to pass through and a portion of the light will trap within in the form of heat. The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Orr's teachings as shown by Schaefer because the selection of any of known equivalent materials for the plate 20 and hollow body 14 would have been within the level of ordinary skill in the art. Further, it has been held that "apparatus claims cover what a device is, not what a device does", Hewlett-Packard Co. vs. Bausch & Lomb Inc. 15 USPQ 1525.

As to the second and third differences, Zimek shows both the limitations in an apparatus with means for applying a corpuscular radiation to reactants for initiating or perfecting chemical reaction (see Fig. 1 or 2). Crosbie shows the same in an ozonizer (see abstract and Fig. 1). The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Orr's teachings as suggested by either Zimek or Crosbie

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because 1) as to the second difference, the selection of any of known equivalent means for securing the plate to the hollow body would have been within the level of ordinary skill in the art; and 2) as to the third difference "making elements separable was held to have been obvious", *In re Dulberg* 129 USPQ 148.

As to the subject matter of each of claims 2, 3 and 6, since Orr discloses in paragraph crossing cols. 3 and 4 to the choice of material of the plate and hollow body, the selection of any of known equivalent materials for the plate and its size and the hollow body would have been within the level of ordinary skill in the art.

Response to Arguments

5. Applicant's arguments filed October 21, 2005 have been fully considered but they are not persuasive.

To the applicant's argument that the references do not teach or suggest or motivate the use of a plate that allows UV light to pass within it but traps UV light and more particularly the encourage of a reaction that will destroy organic compounds in volatile organic compound laden waste management, the examiner finds this is to be unpersuasive. It is because when the acrylic material is the choice of material for the plate in Orr and since the acrylic material is

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transparent, the acrylic material will allow some UV light to pass through and a portion of the light will trap within in the form of heat.

To the argument that the present invention offers a structure to destroy organic compounds in volatile organic compound laden waste water, it has been held that "apparatus claims cover what a device is, not what a device does", Hewlett-Packard Co. vs. Bausch & Lomb Inc. 15 USPQ 1525. Further, Orr discloses the use of the device in sewage treatment and in other applications for oxidation (col. 2, lines 38-44).

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

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calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kishor Mayekar Primary Examiner Art Unit 1753